Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1.-6. (Canceled)
- 7. (Currently Amended) A composition of matter comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - a coherent layer of fluorescently labeled biological cells applied to the transparent support;
 - a solution comprising a masking dye in the reaction vessel, the masking dye absorbing at least one of:
 - i) the excitation energy of any fluorescent dye in the solution;
 and

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- ii) the emission light of any fluorescent dye in the solution; and
- d) optionally a fluorescent dye dissolved in the solution.
- 8. (Previously Presented) The A composition of matter according to claim 7 comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - b) a coherent layer of fluorescently labeled biological cells applied

 to the transparent support;
 - c) a solution comprising a masking dye in the reaction vessel, wherein the masking dye is water-soluble and has no cytotoxic side effects, the masking dye absorbing at least one of:
 - i) the excitation energy of any fluorescent dye in the solution; and

ii) the emission light of any fluorescent dye in the solution; and

d) optionally a fluorescent dye in the solution.

- 9. (Previously Presented) A composition of matter comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - a coherent layer of fluorescently labeled biological cells applied to the transparent support;
 - a separating layer applied to the coherent layer of fluorescently labeled biological cells, the separating layer being permeable to a solution comprising a fluorescent dye, and the separating layer absorbing, reflecting or both absorbing and reflecting at least one of:

- the excitation energy of the fluorescent dye in the solution;
 and
- ii) the emission light of the fluorescent dye in the solution; and
- d) optionally a solution comprising a fluorescent dye in the reaction vessel.
- 10. (Previously Presented) The composition of matter according to claim 9, wherein the separating layer comprises a layer of polymeric latex beads.
- 11. (Previously Presented) The composition of matter according to claim 10, wherein the polymeric latex beads are dyed with a masking dye.
- 12. (Previously Presented) The composition of matter according to claim 11, wherein the masking dye dyed on the polymeric latex beads is water-soluble and has no cytotoxic side effects.
 - 13. (Previously Presented) A composition of matter comprising:

- a) a reaction vessel having a transparent support at the bottom of said
 reaction vessel;
- a coherent layer of fluorescently labeled biological cells applied to the transparent support;
- c) a solution comprising a masking dye in the reaction vessel, the masking dye absorbing at least one of:
 - the excitation energy of any fluorescent dye in the solution;
 and
 - ii) the emission light of any fluorescent dye in the solution; and
- d) a separating layer applied to the coherent layer of fluorescently labeled biological cells, the separating layer being permeable to a solution comprising a fluorescent dye, and the separating layer

absorbing, reflecting or both absorbing and reflecting at least one of:

- the excitation energy of the fluorescent dye in the solution;
 and
- ii) the emission light of the fluorescent dye in the solution; and
- e) optionally a fluorescent dye in the solution.
- 14. (Previously Presented) The composition of matter according to claim 13, wherein the masking dye is water-soluble and has no cytotoxic side effects.
- 15. (Previously Presented) The composition of matter according to claim 13, wherein the separating layer comprises a layer of polymeric latex beads.
- 16. (Previously Presented) The composition of matter according to claim 15, wherein the polymeric latex beads are dyed with a masking dye.

17. (Previously Presented) The composition of matter according to claim 16, wherein the masking dye dyed on the polymeric latex beads is water-soluble and has no cytotoxic side effects.

18.-21. (Canceled)

- 22. (Previously Presented) A composition of matter comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - b) a layer of receptors specific for a fluorescent or luminescent ligand applied to or deposited on the transparent support; and
 - c) a solution comprising a masking dye in the reaction vessel, the masking dye masking the fluorescence or luminescence of any unbound fluorescent or luminescent ligand in the solution; and
 - d) unbound fluorescent or luminescent ligand in the solution.

- 23. (Currently Amended) The A composition of matter according to claim 22 comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - b) a layer of receptors specific for a fluorescent or luminescent

 ligand applied to or deposited on the transparent support; and
 - wherein the masking dye is water-soluble and has no cytotoxic side
 effects, the masking dye masking the fluorescence or
 luminescence of any unbound fluorescent or luminescent
 ligand in the solution.
 - 24. (Previously Presented) A composition of matter comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;

- b) a layer of receptors specific for a fluorescent or luminescent ligand applied to or deposited on the transparent support; and
- c) a separating layer applied to the layer of receptors specific for a fluorescent or luminescent ligand, the separating layer being permeable to a solution comprising the fluorescent or luminescent ligand, and the separating layer absorbing, reflecting or both absorbing and reflecting at least one of:
 - the excitation energy of any unbound fluorescent or luminescent ligand remaining in the solution comprising the fluorescent or luminescent ligand; and
 - ii) the fluorescence or luminescence of any unbound fluorescent or luminescent ligand remaining in the solution comprising the fluorescent or luminescent ligand.
- 25. (Previously Presented) The composition of matter according to claim 24, wherein the separating layer comprises a layer of polymeric latex beads.

- 26. (Previously Presented) The composition of matter according to claim 25, wherein the polymeric latex beads are dyed with a masking dye.
- 27. (Previously Presented) The composition of matter according to claim 26, wherein the masking dye dyed on the polymeric latex beads is water-soluble and has no cytotoxic side effects.
 - 28. (Previously Presented) A composition of matter comprising:
 - a) a reaction vessel having a transparent support at the bottom of said reaction vessel;
 - a layer of receptors specific for a fluorescent or luminescent ligand
 applied to or deposited on the transparent support;
 - c) a solution comprising a masking dye in the reaction vessel, the masking dye masking the fluorescence or luminescence of any unbound fluorescent or luminescent ligand in the solution; and

- d) a separating layer applied to the layer of receptors specific for a fluorescent or luminescent ligand, the separating layer being permeable to a solution comprising the fluorescent or luminescent ligand, and the separating layer absorbing, reflecting or both absorbing and reflecting at least one of:
 - the excitation energy of any unbound fluorescent or luminescent ligand remaining in the solution comprising the fluorescent or luminescent ligand; and
 - ii) the fluorescence or luminescence of any unbound fluorescent or luminescent ligand remaining in the solution comprising the fluorescent or luminescent ligand.
- 29. (Previously Presented) The composition of matter according to claim 28, wherein the masking dye is water-soluble and has no cytotoxic side effects.
- 30. (Previously Presented) The composition of matter according to claim 28, wherein the separating layer comprises a layer of polymeric latex beads.

- 31. (Previously Presented) The composition of matter according to claim 30, wherein the polymeric latex beads are dyed with a masking dye.
- 32. (Previously Presented) The composition of matter according to claim 31, wherein the masking dye dyed on the polymeric latex beads is water-soluble and has no cytotoxic side effects.
 - 33.-43. (Canceled)